

INNOVATION IN NORTH CAROLINA'S COMMUNITY COLLEGES

Dr. R. Scott Ralls, President NC Community College System

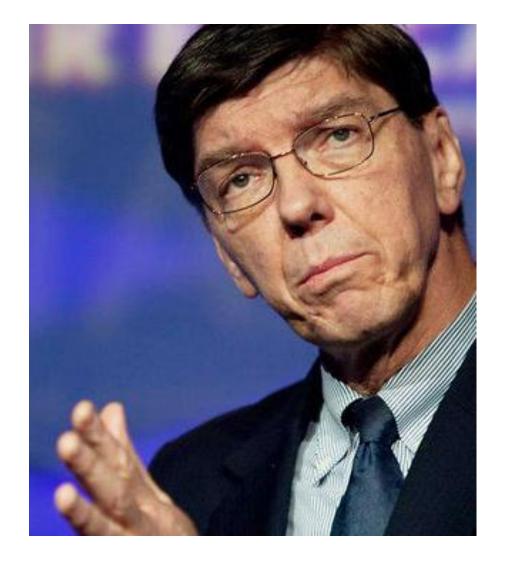


- TECHNOLOGY INNOVATION
- ACADEMIC SUCCESS INNOVATION
- ECONOMIC AND FINANCIAL INNOVATION



DISRUPTIVE INNOVATION

"...a process by which a product or service takes root initially in simple applications at the bottom of a market and then relentlessly moves up market, eventually displacing established competitors."



CLAYTON CHRISTENSEN

Kim B. Clark Professor of Business

Administration at the Harvard Business School



UPDATED AND EXPANDED NEW EDITION

Disrupting Class

How Disruptive Innovation Will Change the Way the World Learns



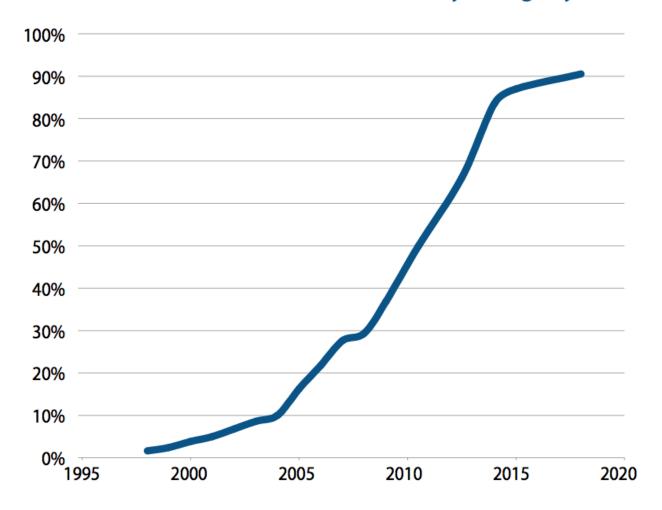
Clayton M. Christensen

BESTSELLING AUTHOR OF THE INNOVATOR'S DILEMMA

Michael B. Horn & Curtis W. Johnson



The growth of online courses as percentage of all courses in the North Carolina community college system



Source: Disrupting College: How Disruptive Innovation Can Deliver Quality and Affordability to Postsecondary Education, Christensen et. Al, 2011 5

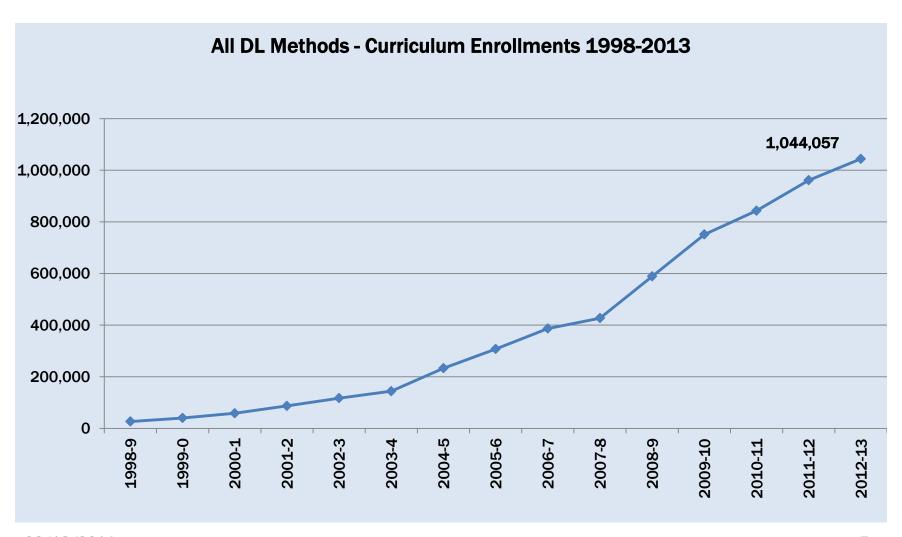


DISTANCE LEARNING

- More than 1 million distance learning course enrollments in NCCCS in 2012-13
- 55% of all course delivery is via distance learning
- Of the 1 million+ distance courses:
 - 46% are fully online
 - 16% are hybrid (>half content online)



DISTANCE LEARNING GROWTH





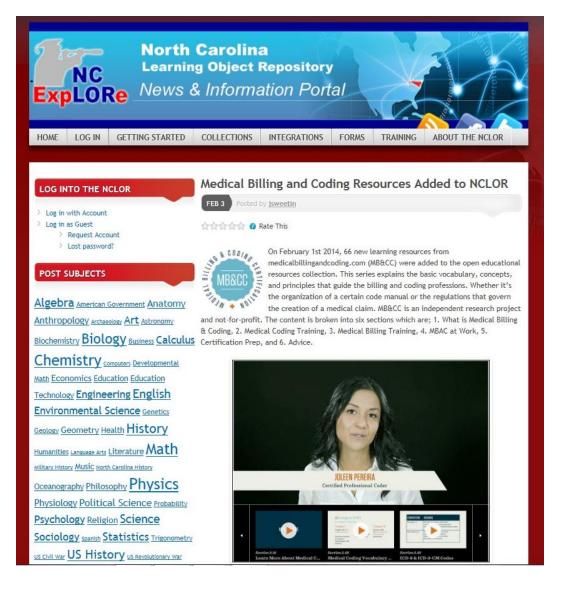
NCLOR

- Digital repository that provides one platform to organize and store North Carolina's teaching and learning, research, and media content
- Directly integrated with LMSs and DPI's HomeBase
- April 1, 2014, 5-year anniversary of go-live date
- Over 45,000 resources in a wide range of disciplines
- STEM related content:
 - Makes up appx. 75% of LOR content
 - Most requested content by Faculty



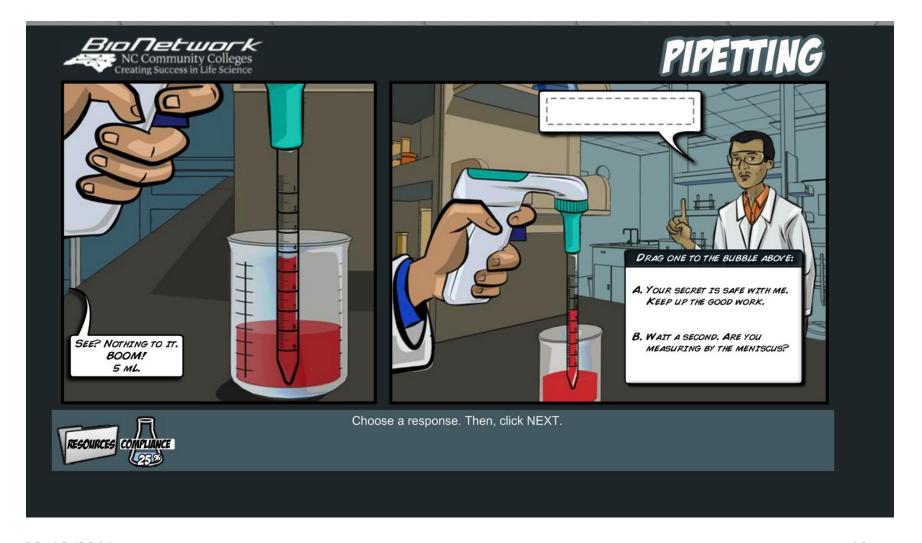
NCLOR

http://explorethelor.org





Learning Object Example from BioNetwork





ACADEMIC SUCCESS INNOVATION

SuccessNC listed among 2012 Brookings-Rockefeller State and City Government Solutions to Watch

"By fostering greater collaboration among the state's community colleges and developing rigorous performance measures to assess and improve college offerings, SuccessNC is working to leverage the collective power of North Carolina's community colleges to improve student outcomes across the state."



Dr. Ralls testifies before Senate HELP Committee, Attaining a Quality Degree: Innovations to Improve Student Success



Student Success Framework



SuccessNC FRAMEWORK

SuccessNC					
CONNECTION	ENTRY	PROGRESS	COMPLETION		
Career & College Promise Common Core Alignment Career & Technical Education High School to College Articulation	Developmental Education Initiative Financial Aid Simplification Math Pathways CIP (Curriculum Improvement Project)	Minority Male Mentoring Code Green Super (Curriculum Improvement Projet Integrated Teaching Learning Gateward Comprehensive Articulation Agreement Revision Reverse Transfer Credit	ect) g & y n &		
Performance Measures / Funding Identify & Mitigate Barriers to Student Success					
Completion by Design					



SuccessNC KEY STATEWIDE INITIATIVES

CONNECTION

- Basic Skills Plus
- Career and College Promise

ENTRY

- Developmental Education Initiative
- PROGRESS
 - Code Green Super CIP
 - Comprehensive Articulation Agreement

COMPLETION

Completion by Design



College Innovations

- Central Carolina Works
 - Central Carolina CC
- MathTank
 - Nash CC
- MathSense
 - Central Piedmont CC
- Developmental Math MOOC
 - Wake Tech
- NAM Certification Integration
 - Forsyth Tech
- Completion by Design
 - Led by Guilford Tech



Importance of Pathways

"Research suggests that individuals presented with many options often do not make good decisions, and there is evidence that community colleges could be more successful in helping students persist and complete a program of study if they offered a set of tightly structured program options whose requirements and expected outcomes are clearly defined"

-Jenkins and Cho (2012)





EMILY DEROCCO

Former US Assistant Sec. of Labor Former President, The Manufacturing Institute

"North Carolina's community college system and leaders clearly lead the way nationally in efficient and effective educational programming, providing pathways directly aligned to skills and jobs in demand across the economy. NC's bold and innovative curriculum approach, coupled with a state funding strategy tiered to prioritize support for educational pathways that reward students with industryrecognized credentials and are most likely to close the skills gap, are models that should be replicated across the nation. 46



Trade Assistance Act Community
College Career Training and National
Science Foundation Grants





POTENTIAL INNOVATION:

REINVESTING THE DEVELOPMENTAL DIVIDEND INTO CLOSING THE SKILLS GAP



Tier 1

Curriculum technical, health science, lab-based science, and collegelevel math courses Tier 1 Funding = 15% higher than Tier 2

Tier 2

All other curriculum courses and con. ed. courses leading to a 3rd party credential

Tier 2 Funding = 15% higher than Tier 3 ★

Tier 3
All other continuing education courses

Major Occupational Categories Sorted by STEM Score, with Share of Jobs that are STEM, and Share of U.S. STEM Jobs, 2011

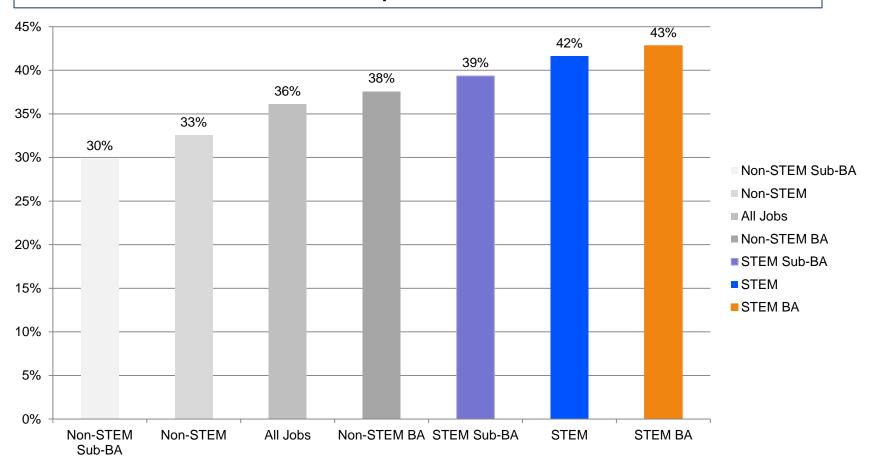
	High-STEM, Percentage of Jobs	Share of U.S. High-STEM Jobs
Architecture and engineering	100%	9%
Life, physical, and social science	87%	4%
Healthcare practitioner and technical	76%	22%
Computer and mathematical science	100%	13%
Installation, maintenance, and repair	53%	10%
Management	27%	6%
Construction and extraction	40%	8%
Education, training, and library	9%	3%
Business and financial operations	42 %	10%
Farming, fishing, and forestry	8%	0%
Production	23%	7%
Arts, design, entertainment, sports, and media	16%	1%
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Source: Brookings analysis of O*NET and OES, 2011.



Sub-BA STEM jobs are hard-to-fill

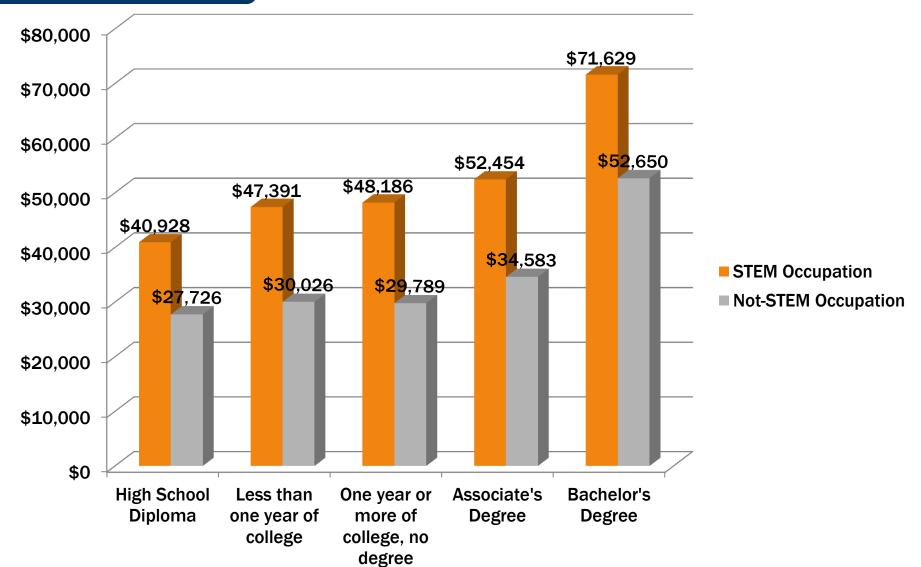
Share of 2011 job openings re-posted after 30 days in 100 largest metropolitan areas





STEM Pays at All Levels of Education

(Analysis of 2012 American Community Survey via IPUMS—excludes non-employed workers)





QUESTIONS/COMMENTS